

# FRA Human Factors R&D Program

# Critical Incident Stress Debriefing (CISD): Best Practices Study

RSAC Briefing, April 27, 2004



## CISD Best Practices Study: Background

- 1995: Grade Crossing Research Needs Workshop
- Concern about PTSD among locomotive engineers and train crews
- Impact of traumatic exposure to grade crossing and trespasser incidents
- Multiple exposures for some individuals



**Administration** 

### CISD Best Practices Study: What is PTSD?

A clinical diagnosis characterized by:

•	Traumatic event	$\mathbf{T}$
•	I raumatic event	-

- Persistent Re-experienced

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- Persistent Avoidance
- Symptoms of AroUsal
- Duration is more than 1 **M**onth
- Anxiety distress or impairment

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#### Studies on Impact of PTSD

- Lower levels of productivity
- Avoidance of trauma circumstances and work areas
  - Layoffs, absenteeism, leave of absences
- Increased stress
- Less desire to continue working
- Disproportionate use of medical/mental health care system
- Higher use of EAP programs
- Marital difficulties, financial and health problems
- Reluctance to seek treatment



#### Prevalence of PTSD

- PTSD estimated to affect 7.4% -- 12% of adult population
- Estimated that 6.3% of persons who experience trauma will develop PTSD
- Estimated up to 45% of MVA survivors develop PTSD
- Prevalence unknown among locomotive engineers and train crews



#### **CISD Current Practices**

- Peer counseling
- Employees referred to EAP programs
- Informal supervisor counseling
- No counseling
- No industry standard



#### **History of CISD Study**

- July, 1999: Budgeted in HF Program, Grant to University of Denver
- Late 1999: Informal Working Group formed
  - BLE, UTU, AAR, FRA R&D, FRA Office of Safety
  - Developed non-regulatory process to address issues
- 2000 2001: study designed and redesigned to address industry concerns
  - Focus on grade crossing and trespasser incidents
  - Emphasis on "best practices"
- 2002: Letter to CEO's from Administrator Rutter
  - Invitation to participate in national study
  - Class I's, Class II's, Short Line's, Commuter RR's



### CISD Best Practices Study: Project Goals

Goals as revised by CISD Resource Group

- 1. Benchmark CISD programs in industry
- 2. Establish prevalence and incidence
- 3. Evaluate effectiveness of CISD components



### CISD Best Practices Study: Current Status

- 2003: Pilot Study on Amtrak
- 2003: Volpe study
  - Interviews of all key stakeholders (CISD Resource Group)
  - Identify "tangible results" of intended long term outcomes
  - Increase quality, effectiveness and utility of outcomes
  - Identify and employ implementation strategies
- 2004: Project implementation
  - Finalizing data analysis plan and implementation protocol
  - Begin collecting data